



Mining And Surface Certification (Pty) Ltd

2015/021934/07



T0444



Certificate Number:

Issue:

Expire:

MASC S/16-1582

24 October 2023

12 September 2026

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IA – CERTIFICATE (Supplementary one)

THIS CERTIFICATE IS ISSUED AS AN I.A. CERTIFICATE IN TERMS OF THE MINE HEALTH AND SAFETY ACT, ACT NO 29 OF 1996 (AND REGULATIONS), THE OCCUPATIONAL HEALTH AND SAFETY ACT (ACT 85 OF 1993) AND REGULATION 17 OF THE ELECTRICAL MACHINERY REGULATIONS

Ex – Type Examination

Certificate number:

Equipment:

Serial No:

MASC S/16-1582

Exe Extension Unit

(See “Conditions of Certification”)

Applicant:

Address:

Electroflame (Pty) Ltd

83 Brand Street

President Park A/H

Midrand

Gauteng

South Africa

Manufacturer:

Address:

Electroflame (Pty) Ltd

83 Brand Street

President Park A/H

Midrand

Gauteng

South Africa

DESCRIPTION:

The Exe Extension Unit assembly is manufactured by Electroflame (Pty) Ltd. The unit consisted of an aluminium die-cast body and lid. The lid is secured to the body with six M6 x 1.0 (A2-70) screws. The Extension box assembly have the following overall dimension: 360mm x 123mm x 147mm high. The Extension unit is fitted with four Ex e approved 16A, CEAG, flanged sockets and optional Socket Pilot Light.

Where units are delivered with sockets or Socket Pilot Light removed, the entry should be properly blanked off as not to impair the degree of protection provided by the enclosure (IP54 rating). Provision is made for three M20 / M25 cable entries. Un-used cable entries are plugged with suitably certified blanking elements.

Supplementary one:

To addition, a two and three Way Extension unit is provided with smaller dimensions of 284mm x 130mm x 147mm. The unit consist of an aluminium die-cast body and lid. The lid is secured to the body with four M6 x 1.0 (A2-70) screws. The Extension unit was fitted with two to three Ex e approved 16A, CEAG, flanged sockets and optional Socket Pilot Light.

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Mining And Surface Certification (Pty) Ltd Reg No: 2015/021934/07

Directors: Roelof Viljoen & Francois du Toit

Unit #5, Lelyta Park, 45 Jurg Avenue, Hennospark Ext 87, Centurion, 0157 ♦ P.O. Box 14344, Clubview, 0014

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Exe Extension Unit
(Supplementary – One)

The unit(s) are populated with the following:

- CEAG Type GHG5118306R0001 sockets (IECEX BVS 15.0088U)
- Socket Pilot Light (**Optional**) (MASC S/16-1580U)
- Wiring harness c/w lugs and ferrules
- Connector bracket
- 3-way connector block (Suitably Certified)
- CEAG Type GHG5117306R0001 Plug (IECEX BVS 17.0045X)
- Ex e Gland (Suitably certified Exe)
- Seal (SABS 2335/14-384)

The equipment has various threaded entries on the enclosure:

The unit has **One x M25** entry and **One x M32** entry.

MARKING:

Manufacturer: Electroflame (Pty) Ltd
Type: Exe Extension Unit
Serial No: (See “Conditions of Certification”)
Ex Rating: Ex d e IIC T6 Gb
Ex tb IIIC T85°C Db
I.A. No: MASC S/16-1582

COMPLIANCE:

The equipment as described above and in MASC report 16-1582 R1 is hereby certified “Explosion Protected” Ex d e IIC T6 Gb / Ex tb IIIC T85°C Db and is suitable for use in hazardous locations as stated below and as tested, assessed and inspected in accordance with the relevant requirements of SANS/IEC Standards:

The evaluation was conducted according to the requirements of:

- i) SANS (IEC) 60079-0: 2012 “General Requirements”
- ii) SANS (IEC) 60079-1: 2015 “Equipment protection by flameproof enclosures ‘d’”
- iii) SANS (IEC) 60079-7: 2007 “Equipment protection by increased safety ‘e’”
- iv) SANS (IEC) 60079-31: 2014 “Equipment dust ignition protection by enclosures ‘t’”
- v) ARP 0108 (Edition 1.1) “Regulatory requirements for explosion protected apparatus”.

Location	Zone 1 & 2 Zone 21 & 22	Gas / Surface Dust
Hazard Frequency	---	Intermittent as could occur under normal operating conditions in hazardous area
Environment	Group IIC Group IIIC	Hydrogen / Acetylene Dust (Metallic and non-metallic)
Limiting Temperature	T6 / T85°C	Gas / Dust
Ambient Temperature	-20°C to +40°C	

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Exe Extension Unit
(Supplementary – One)

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The use of apparatus in hazardous locations is subject to the following provisions as applicable, which shall be adhered to:

- i. SANS 10086 requirements;
- ii. Any conditions mentioned in the above report;
- iii. Any restrictions and conditions enforced by Chief Inspectors of Mines, Principal Inspector (Group I equipment) of Chief Inspector of Factories (Group II equipment);
- iv. Any relevant requirements of the MHS Act or the OHS Act.

CONDITIONS OF CERTIFICATION:

SPECIAL CONDITIONS OF USE “X”:

- None

CONDITIONS OF MANUFACTURE:

- None

According to the relevant requirements of the MHS Act and the OHS Act, production units of explosion protected equipment are required to comply with third party quality assurance (an approved mark scheme or batch testing by an accredited test laboratory.)

Approved on behalf of MASC

M. Erasmus
TECHNICAL SPECIALIST

W. Haywood
TECHNICAL SPECIALIST

Mining And Surface Certification

This document is issued based on Mining And Surface Certification's Standard Contract terms and conditions available on request.

While every endeavour is made to ensure that a test / assessment is representative and accurately performed, and that a report is accurate in the quoted results and conclusions drawn from the test / assessment, MASC or its members/employees shall in no way be liable for any error made in carrying out the test / assessment or for any erroneous statement, whether in fact or in opinion, contained in a report issued pursuant to a test / assessment.

MASC takes no responsibility for any non-conformances, exclusions or any results / assessments not in compliance with the standards. By marking the equipment in accordance with the documentation / standard, the manufacturer attests on his own responsibility that the equipment has been constructed in accordance with the applicable requirements of the relevant standards and that the routine verifications and routine tests have been successfully completed and the product complies with the documentation and standard(s).

This document is only for use and application in South Africa. It is issued based on National interpretations and accepted practises.

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